

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/09031

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12N 13/00
 US CL : 435/173.6, 173.7, 173.8

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 435/173.6, 173.7, 173.8

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (names of data base and, where practicable, search terms used)
 WEST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| Y | US 5,128,257 A (BAER) 07 July 1992 (07.07.1992), see entire document, especially the paragraph bridging columns 4-5. | 1-7 |
| Y | US 6,120,493 A (HOFFMAN) 19 September 2000 (19.09.2000), see entire document including column 9, lines 59-67. | 1-7 |

 Further documents are listed in the continuation of Box C.

See patent family annex.

Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *B* earlier application or patent published on or after the international filing date
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- *D* document relating to an oral disclosure, use, exhibition or other means
- *E* document published prior to the international filing date but later than the priority date claimed

Later documents published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

document member of the same patent family

Date of the actual completion of the international search

07 October 2003 (07.10.2003)

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